CLINICAL AND EXPERIMENTAL IMMUNOLOGY

CONTENTS

Vol 103 No 1 January 1996

G. L. ASHERSON, F. DIELI, G. SIRECI & A. SALERNO: Role of IL-4 in delayed type hypersensitivity 1

A. D. B. WEBSTER, D. BROWN, A. FRANZ & G. DUSHEIKO: Prevalence of hepatitis C in patients with primary antibody deficiency 5

M. HEINKELEIN, S. PILZ & C. JASSOY: Inhibition of CD95 (Fas/Apo1)-mediated apoptosis by vaccinia virus WR 8

J. DUCOS, A.-M. BIANCHI-MONDAIN, G. PAGEAUX, A. M. CONGE, R. PONCET, J.-P. VENDRELL, M. SEGONDY & A. SERRE: Hepatitis B virus (HBV)-specific *in vitro* antibody production by peripheral blood mononuclear cells (PBMC) after vaccination by recombinant hepatitis B surface antigen (rHBsAg) 15

A. BETTAIEB, E. OKSENHENDLER, N. DUEDARI & P. BIERLING: Cross-reactive antibodies between HIV-gp120 and platelet gpIIIa (CD61) in HIV-related immune thrombocytopenic purpura 19

N. ARASE, H. ARASE, K. OHKI, Y. NISHINO, K. IKUTA & K. ONOÉ: Mitogenic effect of HIV-infected human T cell lines on mouse B cells mediated by surface immunoglobulin 24

G. VANHAM, K. EDMONDS, L. QING D. HOM, Z. TOOSSI, B. JONES, C. L. DALEY, R. HUEBNER, L. KESTENS, P. GIGASE & J. J. ELLNER: Generalized immune activation in pulmonary tuberculosis: co-activation with HIV infection 30

S. D'SOUZA, M. LEVIN, A. FAITH, H. YSSEL, B. BENNETT, R. A. LAKE, I. N. BROWN & J. R. LAMB: Defective antigen processing associated with familial disseminated mycobacteriosis 35

J. L. AVILA, M. ROJAS & A. AVILA: Cholesterol sulphate-reactive autoantibodies are specifically increased in chronic chagasic human patients 40

J. ZHU: Ultraviolet B irradiation and cytomegalovirus infection synergize to induce the cell surface expression of 52-kD/Ro antigen 47

F. P. NOONAN, L. J. WEBBER, E. C. DE FABO, H. A. HOFFMAN, A. BENDICH & M. MATHEWS-ROTH: Dietary β-carotene and ultraviolet-induced immunosuppression 54

Y. H. HUANG, A. HAEGERSTRAND & J. FROSTEGÅRD: Effects of *in vitro* hyperthermia on proliferative responses and lymphocyte activity 61

S. C. THORNTON, B. J. WALSH, S. BENNETT, J. M. ROBBINS, E. FOULCHER, G. W. MORGAN, R. PENNY & S. N. BREIT: Both *in vitro* and *in vivo* irradiation are associated with induction of macrophage-derived fibroblast growth factors 67

R. GARCIA-LOZANO, I. WICHMANN, A. GARCIA, J. SANCHEZ-ROMAN, F. GONZALEZ-ESCRIBANO & A. NUÑEZ-ROLDAN: Presence of antibodies to replication protein A in some patients with systemic lupus erythematosus (SLE) 74

A. E. KINGSTON, C. A. HICKS, M. J. COLSTON & M. E. J. BILLINGHAM: A 71-kD heat shock protein (hsp) from *Mycobacterium tuberculosis* has modulatory effects on experimental rat arthritis 77

R. N. BARKER, A. D. WELLS, M. GHORAISHIAN, A. J. EASTERFIELD, Y. HITSUMOTO, C. J. ELSON & S. J. THOMPSON: Expression of mammalian 60-kD heat shock protein in the joints of mice with pristane-induced arthritis 83

X.-M. GAO & A. J. MCMICHAEL: Cytotoxic T lymphocytes specific for murine type II collagen do not trigger arthritis in B10 mice 89

J. HÄLLGREN, F. KNUTSON, B. LAVÖ & R. HÄLLGREN: Increased mucosal synthesis of rheumatoid factor (RF) in coeliac disease 94

S. L. TSAI, M. Y. LAI & D. S. CHEN: Analysis of rearranged T cell receptor (TCR) Vβ transcripts in livers of primary biliary cirrhosis: preferential Vβ usage suggests antigen-driven selection 99

G. FATTOVICH, F. VINANTE, G. GIUSTINA, L. MORSATO, A. ALBERTI, A. RUOL & G. PIZZOLO: Serum levels of soluble CD30 in chronic hepatitis B virus infection 105

S. ESNAULT, N. BENBERNOU, F. LAVAUD, H. C. SHIN, G. POTRON & M. GUENOUNOU: Differential spontaneous expression of mRNA for IL-4, IL-10, IL-13, IL-2 and interferon-gamma (IFN-γ) in peripheral blood mononuclear cells (PBMC) from atopic patients 111

L. M. B. VAESSEN, F. SCHIPPER, C. KNOOP, F. H. J. CLAAS & W. WEIMAR: Inverted Vδ1/Vδ2 ratio within the T cell receptor (TCR)-$\gamma\delta$ T cell population in peripheral blood of heart transplant recipients 119

H. ICHINOSE, M. MIYAZAKI, T. KOJI, A. FURUSU, Y. OZONO, T. HARADA, M. SHIN, P. K. NAKANE & K. HARA: Detection of cytokine mRNA-expressing cells in peripheral blood of patients with IgA nephropathy using non-radioactive *in situ* hybridization 125

Q. YI, W. HE, G. MATELL, R. PIRSKANEN, Y. MAGNUSSON, H. ENG & A. K. LEFVERT: T and B lymphocytes reacting with the extracellular loop of the β_2-adrenergic receptor (β_2AR) are present in the peripheral blood of patients with myasthenia gravis 133

K. YAMANE, K. YAMAMOTO, Y. YOSHIKAWA & T. SASAZUKI: Effect of the expression of DRαEβ^{NOD} molecule on the development of insulitis and diabetes in the non-obese diabetic (NOD) mouse 141

M. Shigematsu, S. Nagai, T. Mikuniya, T. Izumi, H. Wigzell, A. G. Eklund & J. Grunewald: T cell receptor (TCR) V gene segment use in HLA-typed Japanese healthy subjects 149
R. Audran, T. Lesimple, M. Delamaire, C. Picot, J. Van damme & L. Toujas: Adhesion molecule expression and response to chemotactic agents of human monocyte-derived macrophages 155
T. J. F. Reterink, E. W. N. Levarht, N. Klar-mohamad, L. A. Van es & M.R. DAHA: Transforming growth factor-beta 1 (TGF-β1) down-regulates IgA Fc-receptor (CD89) expression on human monocytes 161
M. C. Nash, A. M. Wade, V. Shah & M. J. Dillon: Normal levels of soluble E-selectin, soluble intercellular adhesion molecule-1 (sICAM-1), and soluble vascular cell adhesion molecule-1 (sVCAM-1) decrease with age 167
V. Eschwège, I. Laude, F. Toti, J.-L. Pasquali & J.-M. Freyssinet: Detection of bilayer phospholipid-binding antibodies using flow cytometry 171

Vol 103 No 2 February 1996

M. Wallace, S. R. Bartz, W.-L. Chang, D. A. Mackenzie, C. D. Pauza & M. Malkovsky: $\gamma\delta$ T lymphocyte responses to HIV 177
H. I. J. Thomas, S. Wilson, C. M. O'toole, C. M. Lister, A. M. Saeed, R. P. F. Watkins & P. Morgan-capner: Differential maturation of avidity of IgG antibodies to gp41, p24 and p17 following infection with HIV-1 185
K. Kuzushima, M. Yamamoto, H. Kimura, Y. Ando, T. Kudo, I. Tsuge & T. Morishima: Establishment of anti-Epstein–Barr virus (EBV) cellular immunity by adoptive transfer of virus-specific cytotoxic T lymphocytes from an HLA-matched sibling to a patient with severe chronic active EBV infection 192
A. D. Wilson, M. Shooshstari, S. Finerty, P. Watkins & A. J. Morgan: Virus-specific cytotoxic T cell responses are associated with immunity of the cottontop tamarin to Epstein–Barr virus (EBV) 199
M. G. Friedman, N. Entin, R. Zedaka & R. Dagan: Subclasses of IgA antibodies in serum and saliva samples of newborns and infants immunized against rotavirus 206
H. K. Johansen, H. P. Hougen, J. Rygaard & N. Høiby: Interferon-gamma (IFN-γ) treatment decreases the inflammatory response in chronic *Pseudomonas aeruginosa* pneumonia in rats 212
H. Tomioka, T. Kishimoto & W. W. Maw: Phospholipids and reactive nitrogen intermediates collaborate in expression of the T cell mitogenesis-inhibitory activity of immunosuppressive macrophages induced in mycobacterial infection 219
P. W. Roche, N. Winter, J. A. Triccas, C. G. Feng & W. J. Britton: Expression of *Mycobacterium tuberculosis* MPT64 in recombinant *Myco. smegmatis*: purification, immunogenicity and application to skin tests for tuberculosis 226
F. Jacobs, C. Dubois, Y. Carlier & M. Goldman: Administration of anti-CD3 monoclonal antibody during experimental Chagas' disease induces $CD8^+$ cell-dependent lethal shock 233
Z. Bentwich, Z. Weisman, C. Moroz, S. Baryehuda & A. Kalinkovich: Immune dysregulation in Ethiopian immigrants in Israel: relevance to helminth infections? 239
H. Akuffo, K. Maasho, C. Lavebratt, K. Engström & S. Britton: Ivermectin-induced immunopotentiation in onchocerciasis: recognition of selected antigens following a single dose of ivermectin 244
M. E. Griffith, A. Coulthart & C. D. Pusey: T cell responses to myeloperoxidase (MPO) and proteinase 3 (PR3) in patients with systemic vasculitis 253
W.-J. Mayet, A. Schwarting, T. Orth, R. Duchmann & K.-H. Meyer zum büschenfelde: Antibodies to proteinase 3 mediate expression of vascular cell adhesion molecule-1 (VCAM-1) 259
S. M. Brookes, S. B. A. Cohen, E. J. Price, L. M. C. Webb, M. Feldmann, R. N. Maini & P. J. W. Venables: T cell clones from a Sjögren's syndrome salivary gland biopsy produce high levels of IL-10 268
C. Pelegrí, M. P. Morante, C. Castellote, A. Franch & M. Castell: Treatment with an anti-CD4 monoclonal antibody strongly ameliorates established rat adjuvant arthritis 273
T. Yamaguchi, M. Iwano, A. Kubo, T. Hirayama, Y. Akai, Y. Horii, T. Fujimoto, T. Hamaguchi, N. Kurumatani, Y. Motomiya & K. Dohi: IL-6 mRNA synthesis by peripheral blood mononuclear cells (PBMC) in patients with chronic renal failure 279
M. Mannik: Presence of covalent bonds between immune deposits and other macromolecules in murine renal glomeruli 285
J. S. J. Gerritsma, P. S. Hiemstra, A. F. Gerritsen, W. Prodjosudjadi, C. L. Verweij, L. A. Van es & M. R. Daha: Regulation and production of IL-8 by human proximal tubular epithelial cells *in vitro* 289
E. M. Nilsen, H. A. Gjertsen, K. Jensen, P. Brandtzaeg & K. E. A. Lundin: Gluten activation of peripheral blood T cells induces a Th0-like cytokine pattern in both coeliac patients and controls 295
R. T. Cook, T. J. Waldschmidt, B. L. Cook, D. R. Labrecque & K. Mclatchie: Loss of the $CD5^+$ and $CD45RA^{hi}$ B cell subsets in alcoholics 304
I. Vachier, S. Roux, P. Chanez, J. Loubatière, B. Térouanne, J. C. Nicolas & P. Godard: Glucocorticoids induced down-regulation of glucocorticoid receptor mRNA expression in asthma 311
T. Du, D. S. Friend, K. F. Austen & H. R. Katz: Tissue-dependent differences in the asynchronous appearance of mast cells in normal mice and in congenic mast cell-deficient mice after infusion of normal bone marrow cells 316
G. Woerly, N. Brooks & B. Ryffel: Effect of rapamycin on the expression of the IL-2 receptor (CD25) 322
M. Jongen-lavrencic, H. R. M. Peeters, H. Rozemuller, W. J. C. Rombouts, A. C. M. Martens, G. Vreugdenhil, M. Pillay, P. H. Cox, M. Bijser, G. Brutel, F. C. Breedveld & A. J. G. Swaak: IL-6-induced anaemia in rats: possible pathogenetic implications for anaemia observed in chronic inflammations 328

M. Rygg: Cytokine-induced differential expression of serum amyloid A genes in fetal and neonatal rabbits 335
M. Maeda, R. C. A. A. Van schie, B. Yüksel, A. Greenough, M. W. Fanger, P. M. Guyre & P. M. Lydyard: Differential expression of Fc receptors for IgG by monocytes and granulocytes from neonates and adults 343

Vol 103 No 3 March 1996

D. C. Wraith: Antigen-specific immunotherapy of autoimmune disease: a commentary 349
J. Hassan, G. Yanni, V. Hegarty, C. Feighery, B. Bresnihan & A. Whelan: Increased numbers of $CD5^+$ B cells and T cell receptor (TCR) $\gamma\delta^+$ T cells are associated with younger age of onset in rheumatoid arthritis (RA) 353
A. Bucht, P. Larsson, L. Weisbrot, C. Thorne, P. Pisa, G. Smedegård, E. C. Keystone & A. Grönberg: Expression of interferon-gamma (IFN-γ), IL-10, IL-12 and transforming growth factor-beta (TGF-β) mRNA in synovial fluid cells from patients in the early and late phases of rheumatoid arthritis (RA) 357
N. A. Staines, N. Harper, F. J. Ward, V. Malmström, R. Holmdahl & S. Bansal: Mucosal tolerance and suppression of collagen-induced arthritis (CIA) induced by nasal inhalation of synthetic peptide 184–198 of bovine type II collagen (CII) expressing a dominant T cell epitope 368
Y. Waksman, I. Hod & A. Friedman: Therapeutic effects of estradiol benzoate on development of collagen-induced arthritis (CIA) in the Lewis rat are mediated via suppression of the humoral response against denatured collagen type II (CII) 376
S. Ragno, V. R. Winrow, P. Mascagni, P. Lucietto, F. Di pierro, C. J. Morris & D. R. Blake: A synthetic 10-kD heat shock protein (hsp10) from *Mycobacterium tuberculosis* modulates adjuvant arthritis 384
G. Bouma, B. Xia, J. B. A. Crusius, G. Bioque, I. Koutroubakis, B. M. E. Von blomberg, S. G. M. Meuwissen & A. S. Peña: Distribution of four polymorphisms in the tumour necrosis factor (TNF) genes in patients with inflammatory bowel disease (IBD) 391
M. H. Zhao & C. M. Lockwood: Azurocidin is a novel antigen for anti-neutrophil cytoplasmic autoantibodies (ANCA) in systemic vasculitis 397
E. Peen, T. Sundqvist & T. Skogh: Leucocyte activation by anti-lactoferrin antibodies bound to vascular endothelium 403
S. Jawahar, C. Moody, M. Chan, R. Finberg, R. Geha & T. Chatila: Natural killer (NK) cell deficiency associated with an epitope-deficient Fc receptor type IIIA (CD16-II) 408
D. Sansonno, A. R. Iacobelli, V. Cornacchiulo, G. Iodice & F. Dammacco: Detection of hepatitis C virus (HCV) proteins by immunofluorescence and HCV RNA genomic sequences by non-isotopic *in situ* hybridization in bone marrow and peripheral blood mononuclear cells of chronically HCV-infected patients 414
K. Fujihashi, M. Yamamoto, T. Hiroi, T. V. Bamberg, J. R. McGhee & H. Kiyono: Selected Th1 and Th2 cytokine mRNA expression by $CD4^+$ T cells isolated from inflamed human gingival tissues 422
H. H. Handley, J. Yu, D. T. Y. Yu, B. Singh, R. S. Gupta & J. H. Vaughan: Autoantibodies to human heat shock protein (hsp)60 may be induced by *Escherichia coli* groEL 429
M. Tohyama, K. Kawakami, M. Futenma & A. Saito: Enhancing effect of oxygen radical scavengers on murine macrophage anticryptococcal activity through production of nitric oxide 436
B. K. Das, S. Parida & B. Ravindran: A prognostic role for anti-phosphatidyl choline antibodies in human cerebral malaria 442
K. Honma, Y. Kohno, K. Saito, N. Shimojo, T. Horiuchi, H. Hayashi, N. Suzuki, T. Hosoya, H. Tsunoo & H. Niimi: Allergenic epitopes of ovalbumin (OVA) in patients with hen's egg allergy: inhibition of basophil histamine release by haptenic ovalbumin peptide 446
M. Heimbürger & J. E. W. Palmblad: Effects of leukotriene C_4 and D_4, histamine and bradykinin on cytosolic calcium concentrations and adhesiveness of endothelial cells and neutrophils 454
J. Kadota, Y. Matsubara, Y. Ishimatsu, M. Ashida, K. Abe, R. Shirai, K. Iida, K. Kawakami, H. Taniguchi, T. Fujii, M. Kaseda, S. Kawaoto & S. Kohno: Significance of IL-1β and IL-1 receptor antagonist (IL-1Ra) in bronchoalveolar lavage fluid (BALF) in patients with diffuse panbronchiolitis (DPB) 461
S. R. Ruuls, S. Van der Linden, K. Sontrop, I. Huitinga & C. D. Dijkstra: Aggravation of experimental allergic encephalomyelitis (EAE) by administration of nitric oxide (NO) synthase inhibitors 467
B.-G. Xiao, G.-X. Zhang, C.-G. Ma & H. Link: Transforming growth factor-beta 1 (TGF-β1)-mediated inhibition of glial cell proliferation and down-regulation of intercellular adhesion molecule-1 (ICAM-1) are interrupted by interferon-gamma (IFN-γ) 475
L. Lanza, M. Scudeletti, F. Puppo, O. Bosco, L. Peirano, G. Filaci, E. Fecarotta, G. Vidali & F. Indiveri: Prednisone increases apoptosis in *in vitro* activated human peripheral blood T lymphocytes 482
A. Ben-amor, M. C. Leite-de-Moraes, F. Lepault, E. Schneider, F. Machavoine, A. Arnould, L. Chatenoud & M. Dy: *In vitro* T cell unresponsiveness following low-dose injection of anti-CD3 MoAb 491
I. Algarra, A. González, M. Pérez, J. J. Gaforio & F. Garrido: Effect of *in vivo* activation of natural killer (NK) cells by a tilorone analogue on the survival of mice injected intravenously with different experimental murine tumours 499
M. Tamai, K. Sagawa, R. Kawabata, A. Inoue & K. Itoh: Production of IL-6 by T cells from the femoral head of patients with rapidly destructive coxopathy (RDC) 506